NOTE: The document identifier and heading has been changed on this page to reflect that this is a performance specification. There are no other changes to this document. The document identifier on subsequent pages has not been changed, but will be changed the next time this document is revised.

INCH-POUND

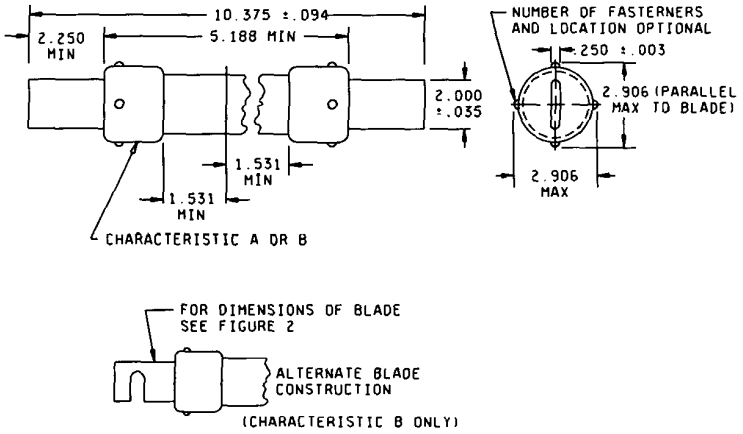
MIL-PRF-15160/22B
29 October 1990
SUPERSEDING
MIL-F-15160/22A
29 December 1986

PERFORMANCE SPECIFICATION SHEET

FUSES: INSTRUMENT, POWER, AND TELEPHONE (NONINDICATING), STYLE F22

This specification is approved for use by all departments and agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and the issue of the following specification listed in that issue of the Department of Defense Index of Specifications and Standards (*DODISS*) specified in the solicitation: MIL-F-15160.



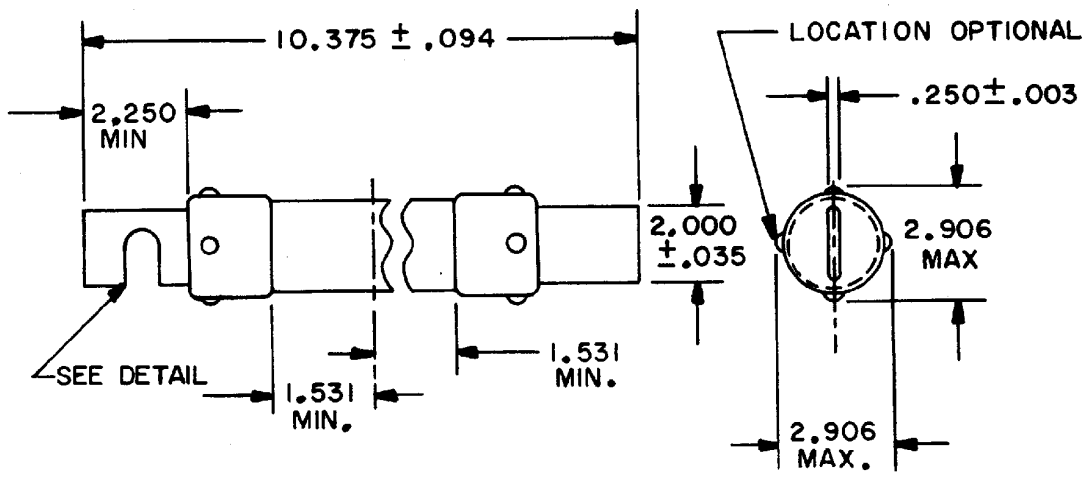
INCHES	MM
0.003	0.08
0.035	0.89
0.094	2.39
0.250	6.63
1.531	38.89
2.000	50.80
2.250	57.15
2.906	73.81
5.188	131.78
10.375	263.52

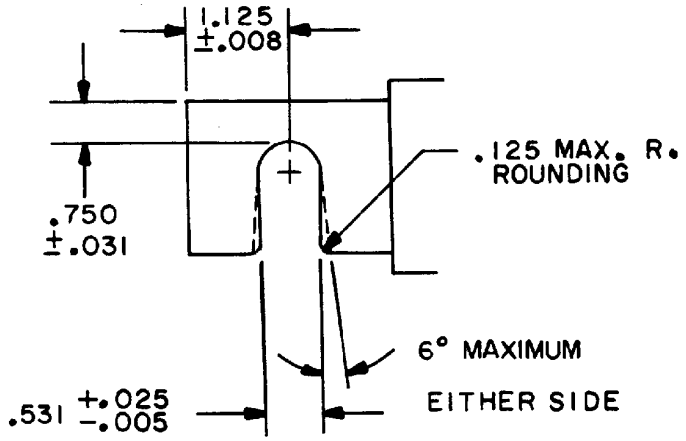
NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for information purposes only and are based on 1 inch = 25.4 mm.

FIGURE 1. *Style F22, characteristic A and B.*

AMSC N/A FSC 5920

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.





REJECTION BLADE DETAIL

INCHES	MM
0.003	0.08
0.005	0.13
0.008	0.20
0.025	0.64
0.031	0.79
0.035	0.89
0.094	2.39
0.125	3.18
0.250	6.63
0.531	13.49
0.750	19.05
1.125	28.58
1.531	38.89
2.000	50.80
2.250	57.15
2.906	73.81
10.375	263.52

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for information purposes only and are based on 1 inch = 25.4 mm.

FIGURE 2. *Style F22, characteristic BR.*

REQUIREMENTS:

1. *Design and construction:* See figures 1 and 2

Physical:

Material:

Case – Fiber or alternate material
(Alternate to fiber material (tube) shall have an average burst strength of 1,700 pounds per square inch with a value of not less than 1,400 pounds per square inch)
Knifeblade – Copper
Finish – Nickel, bright alloy, or bright dipped, silver plated when specified
Terminal strength – MIL-STD-202, method 211, test condition E, 5 pound-inch torque between ferrules and fuse body.

Electrical:

Electrical requirements shall be as specified in table I
Shock – MIL-STD-202, method 207, HI shock
Vibration – MIL-STD-202, method 204, test condition A (except 5 g, 500 Hz).

Temperature rise: Temperature rise shall not be greater than the value shown in table II.

2. *Type designation:* Type designation shall be as shown in table III.

3. *Qualification:* Required.

TABLE I. *Electrical requirements.*

	Characteristic		
	A[2]	B	BR
Voltage rating	250 Vac 250 Vdc	250 Vac 250 Vdc	250 Vac 250 Vdc
Overload[1]			
135%	0 – 2 hr.	0 – 2 hr.	0 – 2 hr.
500%	–	10 – 25 sec.	10 – 25 sec.
Short circuit current			
at 250 Vdc	10,000A	10,000A	10,000A
at 250 Vac	10,000A	10,000A	200,000A (20% PF max.)
Short circuit current at 450 Vac, single phase, (50% PF max.)	10,000A	–	–

[1]Overload is shown as a percentage of the current rating of the fuse.
[2]Characteristic A fuses may be used at 450 Vac with reduced interrupting capacity.

TABLE II. *Allowable temperature rise.*

Casing or body		Terminals	
Thermometer	Thermocouple	Thermometer	Thermocouple
50 °C	90 °C	75 °C	90 °C

TABLE III. *Type designation.*[1]

Style	Characteristic	Voltage	Current
F22	A	250	450A
F22	A	250	500A
F22	A	250	600A
F22	B[2,4]	250	450A
F22	B	250	500A
F22	B	250	600A
F22	BR[3]	250	450A
F22	BR	250	500A
F22	BR	250	600A

[1]For silver plated terminal, the designator "S" is added after the current rating.
[2]The characteristic B fuse is cancelled upon the issue of this document and the establishment of a QPL for the type BR fuse.
[3]The characteristic BR fuse may be used to replace the characteristic B fuse of the same rating, even in nonrejection type fuse clips.
[4]Characteristic B fuses shall not be used to replace characteristic BR fuses.

QUALITY ASSURANCE PROVISIONS:

Qualification inspections. The number of qualification samples required shall be:

a. 24 samples maximum current rating of each voltage and design
b. 24 samples minimum current rating of each voltage and design.

NOTE: If labels are used, 5 additional samples of any rating are required.

PACKAGING:

Unit packaging. The standard unit pack shall be 1 piece.

Revision letters are not used to denote changes due to the extensiveness of the changes.

Custodians:
Army – ER
Navy – SH
Air Force – 85

Review activities:
Army – MI, AR
Navy – AS, OS, YD,
Air Force – 17, 99
DSA – ES

User activities:
Army – ME, AT
Navy – MC, CG
Air Force - 19

Preparing activity:
Navy – SH
(Project 5920-0447-11)